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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/017,574	12/13/2001	G. William Walster	SUN-P6446-SPL	8138
22835 7	7590 09/10/2004		EXAM	INER
PARK, VAUGHAN & FLEMING LLP			DO, CHAT C	
508 SECOND	STREET			
SUITE 201			ART UNIT	PAPER NUMBER
DAVIS, CA 95616			2124	
			DATE MAILED: 09/10/2004	4

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
-	10/017,574	WALSTER ET AL.				
Office Action Summary	Examiner	Art Unit				
	Chat C. Do	2124				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR THE MAILING DATE OF THIS COMMUNICA: Extensions of time may be available under the provisions of 37 after SIX (6) MONTHS from the mailing date of this communic. If the period for reply specified above is less than thirty (30) da If NO period for reply is specified above, the maximum statutor. Failure to reply within the set or extended period for reply will, Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	TION. 'CFR 1.136(a). In no event, however, may a ation. ys, a reply within the statutory minimum of thi y period will apply and will expire SIX (6) MO by statute, cause the application to become A	reply be timely filed rty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).				
Status						
	Responsive to communication(s) filed on <u>13 December 2001</u> .					
2a) This action is FINAL . 2b)	This action is FINAL. 2b) This action is non-final.					
	the second secon					
Disposition of Claims						
4) ⊠ Claim(s) 1-30 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-30 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 13 December 2001 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by	11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
	SEST	AVAILABLE COPY				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO 3) Information Disclosure Statement(s) (PTO-1449 or PT Paper No(s)/Mail Date 06/10/2004.	4) Interview Paper No.	v Summary (PTO-413) o(s)/Mail Date f Informal Patent Application (PTO-152)				

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DETAILED ACTION

Information Disclosure Statement

1. The information disclosure statement filed 06/10/2004 fails to comply with 37 CFR 1.98(a)(2), which requires a legible copy of each U.S. and foreign patent; each publication or that portion which caused it to be listed; and all other information or that portion which caused it to be listed. It has been placed in the application file, but the information referred to therein has not been considered.

Specification

2. The disclosure is objected to because of the following informalities:

The applicant is advised to update information in Related Application section page 1 of present application.

Throughout specification and claims, the applicant is advised to replace the word "subbox" as "sub-box" for clarification.

Appropriate correction is required.

Claim Rejections - 35 USC § 101

3. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

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4. Claims 1-30 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

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Claims 1-10 and 11-20 clearly recite a method and instructions respectively for solving a global inequality constrained optimization according to a mathematic algorithm. Claims 21-30 recite an apparatus implementing the above method but fail to limit the apparatus to any particular structure other than a general computer with input, memory, and processing devices. Indeed, any apparatus used to implementing the underlined method would result in an apparatus as claimed. In order for such a claimed method, computer-related process, or a claimed non-specified apparatus implementing the underlined process to be statutory, the claims must include either a step or means that results in a physical transformation outside the computer or a limitation to a practical application. However, it is clear from the claims that the claims merely recite step or non-specific means for data computation and manipulation in performing a mathematical function. The input is a number and output is also a number. The claims fail to recite any step or means that results in a physical transformation outside the computer, that includes a limitation to a practical application, or that requires a specific structure computer to implement the claimed process. Therefore, claims 1-30 are clearly directed to a non-statutory subject matter.

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.



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a. U.S. Patent No. 4,819,197 to Blais discloses a peak detector and imaging system.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chat C. Do whose telephone number is (703) 305-5655. The examiner can normally be reached on M => F from 7:00 AM to 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chaki Kakali can be reached on (703) 305-9662. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Chat C. Do Examiner Art Unit 2124

August 31, 2004

KAKALI CHAKI
SUPERNISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100